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# 1 [Monte Carlo evaluation of non-linear scattering equations for subsurface reflection](#)

Matt Pharr, Pat Hanrahan

 July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(922.18 KB)

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We describe a new mathematical framework for solving a wide variety of rendering problems based on a non-linear integral scattering equation. This framework treats the scattering functions of complex aggregate objects as first-class rendering primitives; these scattering functions accurately account for all scattering events inside them. We also describe new techniques for computing scattering functions from the composition of scattering objects. We demonstrate that solution techniques base ...

**Keywords:** Chandrasekhkar's equation, Monte Carlo techniques, adding equations, equation of transfer, illumination, invariant imbedding, principles of invariance, reflectance and shading models, rendering, scattering function

## 2 [Efficient decomposition and performance of parallel PDE, FFT, Monte Carlo simulations, simplex, and sparse solvers](#)

Zarka Cvetanovic, Edward G. Freedman, Charles Nofsinger

 November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.07 MB)

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In this paper, we describe the decomposition of six algorithms: two Partial Differential Equations (PDE) solvers (*Successive Over-Relaxation* (SOR) and *Alternating Direction Implicit* (ADI)), Fast Fourier Transform (FFT), Monte Carlo simulations, Simplex linear programming, and Sparse solvers. The algorithms were selected not only because of their importance in scientific applications, but also because they represent a variety of computational (structured to irregular) and communicat ...

## 3 [Implementation of a hypersonic rarefied flow particle simulation on the connection machine](#)

L. Dagum

 August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

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## » Key

IEEE JWL EE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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Owen, A.B.;  
Simulation Conference Proceedings, 1998. Winter  
Volume 1, 13-16 Dec. 1998 Page(s):571 - 577 vol.1  
Digital Object Identifier 10.1109/WSC.1998.745036  
[AbstractPlus](#) | Full Text: [PDF](#)(496 KB) IEEE CNF
- ☐ 2. **Optimization of scintillation-detector timing systems using Monte Carlo a**  
Binkley, D.M.;  
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Volume 41, Issue 1, Part 1-2, Feb 1994 Page(s):386 - 393  
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- ☐ 3. **Comparative evaluation of photon cross-section libraries for materials of Monte Carlo simulations**  
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